Riding the Digital Explosion

Brewster Kahle Sept 20, 1995 GILS Conference

Internet Evolution on Steroids

♦ 1990 Messaging (mail, netnews)

♦ 1991 Db systems (WAIS)

♦ 1992 Browsing & Db (Gopher)

♦ 1993 Hypertext & Db (Web)

◊ 1995 Mobile code (Java?)

but wanted searchable archives

but wanted browsing

but wanted richer presentation

but wanted programmable UI

but...

Constant need: Access to data from multiple systems

The Future of Information Technology

- ◊ Digital
- **♦** Personal
- ♦ Ubiquitous
- ♦ Multimedia: text ->video

Communications Revolution: Digital Data

- ♦ Today the Internet: 56kb-1mb/sec
- ♦ Tomorrow:
 - Cable: 100stet/sec
 - CamCorders: 100kb/sec
 - Satellite Dishes: gb/sec

Computer Revolution

- ♦ Today: desktop workstations, super mainframes
- ♦ Tomorrow: ubiquitous communications

Data Revolution

- ♦ Today: newspapers, 100 channels of TV
- ♦ Tomorrow: merging TV, Telephone, and Databases
- ♦ Everyone is a publisher

Making sense of it all

- ♦ Internal coordination
- ♦ Using external sources: standards standards standards

Coming Problems

- ◊ Proprietary vs. open systems
- **◊ Infotainment -> Productivity tool**
 - -Cross server navigation: 52,000 is too many
 - -Personalization
 - -Packaged delivery

GILS' Solution

- ♦ Put the government info behind the open systems.
- Don't invest in User Interface: make gov. databases available to all
- ♦ Post it once: HTTP, Gopher, Z39.50, Fax etc. from one DB
- ♦ Enable Active Clients: Towards Agents

Interoperability with other systems

- ♦ Web, Java. . .
- ♦ Online Services: AOL, Microsoft Network, etc.
- ♦ Lotus notes
- ♦ Cable systems